	Application No.	Applicant(s)	
Mada AMA 1994	10/662,341	ARAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Brian M. Healy	2874	<u>_</u>
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTOI NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED in85) or other appropriate commu IT RIGHTS. This application is si	this application. If not include nication will be mailed in due c	d ourse. THIS
1. $igtimes$ This communication is responsive to <u>the application fi</u>	led 09/16/2003.		:
2. ⊠ The allowed claim(s) is/are <u>1-9</u> .			:
3. 🗵 The drawings filed on <u>16 September 2003</u> are accepto	ed by the Examiner.		:
4. Acknowledgment is made of a claim for foreign prior a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAN noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted in ABAND THIS THREE-MONTH PERIOD (PTO-152) which (a) including changes required by the Notice of Drafts 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Exam Paper No./Mail Date Leach sheet. Replacement sheet(s) should be labeled as successive to the paper No. In the certain proper No. In the certa	have been received. have been received in Application by documents have been received. ATE" of this communication to file ONMENT of this application. Submitted. Note the attached EXA or gives reason(s) why the oath or a must be submitted. Seperson's Patent Drawing Review iner's Amendment / Comment or the in the header according to 37 CFR 1.84(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c)) should be written on the in the header according to 37 CFR 1.89(c) should be written on the in the header according to 37 CFR 1.89(c) should be written on the in the header according to 37 CFR 1.89(c) should be written on the in the header according to 37 CFR 1.89(c) should be written on the in the header according to 37 CFR 1.89(c) should be written on the in the header according to 37 CFR 1.89(c) should be written on the interest of the intere	in No. 09/983,616. In this national stage application this national stage application are ply complying with the requirement of the complex of the office action of the drawings in the front (not the late 1.121(d). RIAL must be submitted. No	uirements OTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/Paper No./Mail Date 03/02/2004 4. ☐ Examiner's Comment Regarding Requirement for Depo	48) 6. ☐ Interview Su Paper No./N SB/08), 7. ☐ Examiner's A	ormal Patent Application (PTO mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allov	
	Bru Hla	Brian M. Healy	:
	Brian Healy Primary Examiner	Primary Examiner Art Unit: 2874	: :

Art Unit: 2874

REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance: The closest prior art of record i.e. Nouchi et. al., U.S. Patent No. 6,625,359 teaches (Figs. 1-2) a dispersion shifted or low dispersion optical fiber comprising a single mode optical fiber having an effective area greater than of equal to 60um(2) wherein the fiber has a zero chromatic dispersion wavelength (lambda o) that is greater than 1585um with the chromatic dispersion being greater in absolute terms than 3 ps/nm/km with a chromatic dispersion gradient at 1550nm lying in absolute terms in the range of 0.045 ps/nm(2)/km to 0.09 ps/nm(2)/km. Nouchi et.. al. 359' does not teach or suggest the claimed invention, as is recited in claims 1-9, with a low dispersion optical fiber characterized by a difference between a maximum value and a minimum value of a dispersion value in a wavelength band having a bandwidth of 30nm within a wavelength range of 1450 nm to 1650 nm of 2 ps/nm/km or less, a zero dispersion wavelength outside of a wavelength range of 1450 nm to 1650 nm, an effective core area at a wavelength range of 1550 nm of 50um(2) or more and 70um(2) or less, and a bending loss at a wavelength of 1550 nm when bent at a diameter of 20 mm of 20 dB/m or less, with an effective cutoff wavelength of 1290 nm or more with a dispersion at a wavelength of 1550 nm of 2 ps/nm/km or more in absolute value, and a single mode operation in a wavelength band having a bandwidth of 30 nm within a wavelength range of 1450 nm to 1650 nm.. Also not shown or taught by the prior art of record is a positive dispersion slope of 0.035 ps/nm(2)/km or less over a wavelength range of 1450 nm to 1650nm

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and the recited center core and side core embodiments (See claims 1-9 for specific limitations).

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These limitations are recited in claims 1-9 and are considered to be patentable over Matsuoka et.

al., and all of the other references of record.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning the merits of this communication should be directed to Examiner

Brian M. Healy at telephone number (571) 272-2347. Any inquiry of a general or clerical nature

(i.e. a request for a missing form or paper, etc.) should be directed to the Technology Center

2800 receptionist at telephone number (571) 272-2344, to the technical support staff supervisor

(Team 2) at telephone number (703) 308-3072, or to the Technology Center 2800 Customer

Service Office at telephone number (703) 306-3329.

Brian M. Healy

Primary Patent Examiner

Group Art Unit 2874

Primary Examiner